



US006555141B1

(12) **United States Patent**
Corson et al.(10) **Patent No.: US 6,555,141 B1**
(45) **Date of Patent: *Apr. 29, 2003**(54) **L-ERGOTHIONEINE, MILK THISTLE, AND S-ADENOSYLMETHIONINE FOR THE PREVENTION, TREATMENT AND REPAIR OF LIVER DAMAGE**(75) Inventors: **Barbara E. Corson**, Fawn Grove, PA (US); **Todd R. Henderson**, Jarrettsville, MA (US)(73) Assignee: **Nutramax Laboratories, Inc.**, Baltimore, MD (US)

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 102 days.

(21) Appl. No.: **09/256,352**(22) Filed: **Feb. 24, 1999****Related U.S. Application Data**

(60) Provisional application No. 60/076,347, filed on Feb. 27, 1998.

(51) **Int. Cl.⁷** **A61K 35/78**(52) **U.S. Cl.** **424/725**; 514/46; 514/398;
514/399(58) **Field of Search** 424/195.1; 514/46,
514/399, 398(56) **References Cited****U.S. PATENT DOCUMENTS**

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(List continued on next page.)

Primary Examiner—Francisco Prats(57) **ABSTRACT**

This invention provides therapeutic compositions for the protection, treatment and repair of liver tissue. The invention relates to novel compositions comprising two or more compounds selected from the group consisting of S-adenosylmethionine, L-ergothioneine, and a compound selected from the group consisting of Milk thistle (*Silybum marianum*), silymarin and active components of silymarin, whether naturally, synthetically, or semi-synthetically derived, and to methods of preventing and treating liver disease and of repairing damaged liver tissue. The invention also provides a method of administering these compositions to humans or animals in need thereof.

16 Claims, 6 Drawing Sheets